

FIG 2A

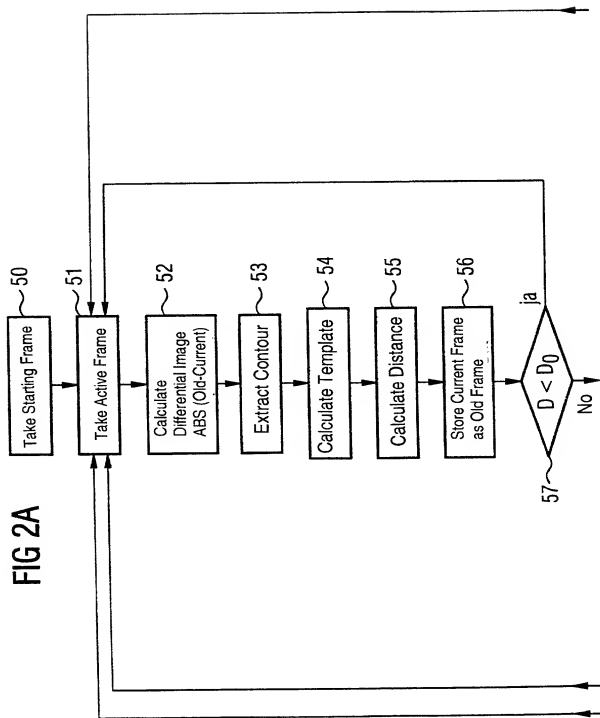
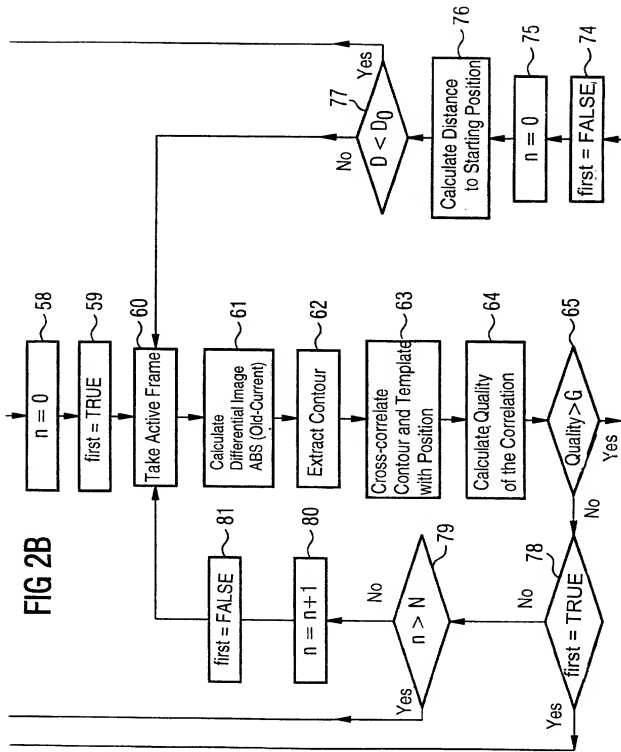


FIG 2B



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graph TD
    66[Update Position of the Measuring Field] --> 67[Calculate Distance to the Dashboard]
    67 --> 68{D < D1}
    68 -- Yes --> 69[Warning Stage 1]
    68 -- No --> 71{D < D2}
    69 --> 70[Store Current Frame as Old Frame]
    70 --> 73[Replace Template with Current Contour]
    73 --> 66
    71 -- Yes --> 72[Warning Stage 2]
    71 -- No --> 72
    72 --> 70
  
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The flowchart illustrates the distance measuring method. It begins with step 66, 'Update Position of the Measuring Field', which leads to step 67, 'Calculate Distance to the Dashboard'. From step 67, the process enters a decision diamond 68, ' $D < D_1$ '. If the condition is 'Yes', it proceeds to 'Warning Stage 1' (69), which then leads to 'Store Current Frame as Old Frame' (70). If the condition is 'No', it proceeds to decision diamond 71, ' $D < D_2$ '. From diamond 71, if the condition is 'Yes', it proceeds to 'Warning Stage 2' (72). If the condition is 'No', it also proceeds to 'Warning Stage 2' (72). From 'Warning Stage 2' (72), the process leads to 'Store Current Frame as Old Frame' (70). Finally, 'Store Current Frame as Old Frame' (70) leads to 'Replace Template with Current Contour' (73), which then loops back to step 66.